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		L A. GLEEN PATENT GROUP	•	•		PCT
	3475 EDI	SON WAY, STE.	. L.		<b>117D</b>	ITTEN OPINION OF THE
	MENLO I	PARK, CA 9402	25			ONAL SEARCHING AUTHORITY
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		•				(PCT Rule 43bis.1)
ļ					Date of mailing (day/month/year)	20 FEB 2005
	Applicant'	's or agent's file r	eference		FOR FURTHER	ACTION See paragraph 2 below
	HAND000	03 <b>P</b>				See paragraph 2 below
į	Internation	nal application No	),	International filing date	(day/month/year)	Priority date (day/month/year)
	PCT/USO	4/32296		29 September 2004 (29	.09.2004)	29 September 2003 (29.09.2003)
			cation (IPC)	or both national classifica		25 5551511501
	IDC(2) · H	MN 7/12 and HS	C1 · 375/24/	1 15 240 2 240 25 240	27 240 28 240 20-	348/453, 515, 596, 729; 704/500; 380/239
	Applicant		Ct 373124	J.13, 240.2, 240.23, 240.	21, 240.20, 240.29,	346/433, 313, 330, 723, 704/300, 360/233
			TA CONTRACT TATE	5		
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:	1. This	opinion contains i	ndications re	lating to the following ite	ms:	
	$\boxtimes$	Box No. I	Basis of the	e opinion		
		Box No. II	Priority			
		Box No. III	Non-establ	ishment of opinion with r	egard to novelty, inv	entive step and industrial applicability
	$\boxtimes$	Box No. IV	Lack of un	ity of invention		
	$\boxtimes$	Box No. V		statement under Rule 43bity; citations and explanation		to novelty, inventive step or industrial statement
		Box No. VI	Certain do	cuments cited		
		Box No. VII	Certain des	fects in the international a	pplication	
		Box No. VIII	Certain obs	servations on the internati	onal application	
	2. FUR	THER ACTIO	N			
	Interr Autho	national Prelimina ority other than th	ary Examini nis one to be	ng Authority ("IPEA")	except that this does IPEA has notified the	be considered to be a written opinion of the s not apply where the applicant chooses an the International Bureau under Rule 66.1bis(b) idered.
OTELOO Albert (C	IPEA maili	a written reply	together, wi ISA/220 or b	here appropriate, with a before the expiration of 22	mendments, before t	PEA, the applicant is invited to submit to the the expiration of 3 months from the date of tority date, whichever expires later.
		-				
	3. For f	urther details, see	notes to For	m PCT/ISA/220.		
		mailing address Mail Stop PCT, An Commissioner for F	n: ISA/U\$	JS	Authorized office	Jugatohly

Telephone No. 703-305-4700

on and constraints

P.O. Box 1450
Alexandria, Virginia 22313-1450
Facsimile No. (703) 305-3230
Form PCT/ISA/237 (cover sheet) (January 2004)



International application No.

PCT/US04/32296

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  This opinion has been established on the basis of a translation from the original language into the following language 23.1(b)). Which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).  2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:  a. type of material  a sequence listing  b. format of material  in written format  in computer readable form  c. time of filing/furnishing  contained in international application as filed.  filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		o. I Basis of this opinion
23.1(bi).  2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:  a. type of material    a sequence listing   table(s) related to the sequence listing    b. format of material   in written format   in computer readable form    c. time of filing/furnishing   contained in international application as filed.   filed together with the international application in computer readable form.   furnished subsequently to this Authority for the purposes of search.  3.   In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		
claimed invention, this opinion has been established on the basis of:  a. type of material    a sequence listing   table(s) related to the sequence listing  b. format of material   in written format   in computer readable form  c. time of filing/furnishing   contained in international application as filed.   filed together with the international application in computer readable form.   furnished subsequently to this Authority for the purposes of search.  3.		, which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and
a sequence listing table(s) related to the sequence listing  b. format of material in written format in computer readable form  c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.  3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		
table(s) related to the sequence listing  b. format of material in written format in computer readable form  c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.  3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:	a.	type of material
b. format of material   in written format   in computer readable form   c. time of filing/furnishing   contained in international application as filed.   filed together with the international application in computer readable form.   furnished subsequently to this Authority for the purposes of search.   3.		a sequence listing
in written format in computer readable form  c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.  3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		table(s) related to the sequence listing
c. time of filing/furnishing contained in international application as filed. filed together with the international application in computer readable form. furnished subsequently to this Authority for the purposes of search.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:	ъ.	format of material
c. time of filing/furnishing    contained in international application as filed.   filed together with the international application in computer readable form.   furnished subsequently to this Authority for the purposes of search.  3.   In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		in written format
contained in international application as filed.  filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		in computer readable form
filed together with the international application in computer readable form.  furnished subsequently to this Authority for the purposes of search.  In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:	c.	time of filing/fumishing
furnished subsequently to this Authority for the purposes of search.  3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		contained in international application as filed.
In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		filed together with the international application in computer readable form.
filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.  4. Additional comments:		furnished subsequently to this Authority for the purposes of search.
	3.	filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in
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Form PCT/ISA/237(Box No. I) (January 2004)



International application No.

PCT/US04/32296

B	ox No. IV Lack of unity of invention	
1.		
	paid additional fees	
	paid additional fees under protest	
	not paid additional fees	
2.	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.	
3.	This Authority considers that the requirement of unity of invention in accordance with Rule 13.1, 13.2 and 13.3 is	
	complied with	
	not complied with for the following reasons:	
	See the lack of unity section of the International Search Report(Form PCT/ISA/210)	
	O HERRO PERSONAL AND CONTROL OF THE PROPERTY OF THE SECOND	124719778
4.	Consequently, this opinion has been established in respect of the following parts of the international application:	
	all parts.	
	the parts relating to claims Nos.	

Form PCT/ISA/237 (Box No. IV) (January 2004)



International application No. PCT/US04/32296

1. Statement			
Novelty (N)	Claims	4-6, 13-16	YES
		1-3, 7-8, 10-12, 23, 27-33	
Inventive step (IS)	Claims	4-6, 13-16	YES
	Claims	1-3, 7-12, 17-33	NO
Industrial applicability (IA)	Claims	1-33	YES
	Claims	NONE	NO
2. Citations and explanations:			
Please See Continuation Sheet			
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/US04/32296

Supplemental Box

In case the space in any of the preceding boxes is not sufficient.

- Claim 12 lacks novelty under PCT Article 33(2) as being anticipated by Dilliplane et al, US 5,940,089.
   Re claim 12, the technical features as claimed are fully disclosed by Dilliplane. (See col. 7, line 51-col. 8, line 13).
- 9. Claims 13-16 meet the criteria set out in PCT Article 33(2)-(4), because the prior art does not teach or fairly suggest the specific YUV format as claimed.
- 10. Claims 17-18 lack an inventive step under PCT Article 33(3) as being obvious over Boykin et al, US 2003/0079222.

  Re claims 17-18, Boykin discloses compressing audio and video input frames into chunks resulting in multiplexed AV stream having video and audio packets. Boykin also discloses providing padding data into the multiplexed AV stream for encryption purposes. (See para 0174-0179). Boykin does not disclose the padding data may be empty video data to isolate audio chunks. However, one skilled in the art would have found it obvious to modify Boykin by including empty video data to also play a part of the padding data for the benefit of separating video and audio data packets in the multiplexed AV stream.
- 11. Claims 19-22 lack an inventive step under PCT Article 33(3) as being obvious over Boykin et al, US 2003/0079222.

  Re claims 19-22, Boykin also discloses fast fixed-point implementation of MPEG-1 Layer 3 decoding wherein audio encoded data are represented by high, low and zero frequency components. (See para 0134-0143, fig. 9). The specific mathematical representation as claimed is not disclosed in detailed in Boykin. However, it would have been obvious that the algorithm disclosed in Boykin when expressed in mathematical representation would have exhibited similar syntax as claimed.
- Claim 23 lacks novelty under PCT Article 33(2) as being anticipated by Yin, US 2004/0093208.
   Re claim 23, the technical features as claimed are fully disclosed by Yin. (See fig. 3, para 0015, 0056-0071).
- 13. Claims 24-26 lack an inventive step under PCT Article 33(3) as being obvious over Yin, US 2004/0093208.

  Yin discloses the algorithm to comput inverse modified discrete cosine transform as claimed. (See fig. 3, para 0015, 0056-0071). The specific mathematical representation as claimed is not disclosed in detailed in Yin. However, it would have been obvious that the algorithm disclosed in Yin when expressed in mathematical representation would have exhibited similar syntax as claimed.
- 14. Claim 27 lacks novelty under PCT Article 33(2) as being anticipated by Henn et al, US 2002/0118845. Re claim 27, the technical features as claimed are fully disclosed by Henn. (See fig. 7, para 0031-0033).
- 15. Claims 28-33 lack novelty under PCT Article 33(2) as being anticipated by Boykin et al, US 2003/0079222.

  Re claims 28-31, the technical features as claimed are fully disclosed by Boykin. (See figs. 34-36, para 0171-0174).

  Re claims 32-33, the technical features as claimed are fully disclosed by Boykin. (See figs. 43-48, para 0179-0196).

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Form PCT/ISA/237 (Supplemental Box) (January 2004)

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